

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 110.01290102	Serial No.: 10/822,533
	Applicant(s): O'SULLIVAN	Confirmation No.: 3326
	Application Filing Date: April 12, 2004	Group: 1632
	Information Disclosure Statement mailed: <i>July 2, 2004</i>	



## U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>DK</i>		2,785,108	03/12/57	Hawley			
		2,935,503	05/03/60	Hawley et al.			
		4,087,559	05/02/78	Mutai et al.			
		4,091,117	05/23/78	Mutai et al.			
		4,716,115	12/29/87	Gonzalez et al.			
		5,173,297	12/22/92	Vedamuthu et al.			
		5,294,458	03/15/94	Fujimori			
		5,340,577	03/23/94	Nisbet et al.			
		5,494,664	02/27/96	Brassart et al.			
		5,520,936	05/28/96	Delespaul et al.			
		5,594,103	01/14/97	De Vos et al.			
		5,602,109	02/11/97	Masor et al.			
		5,700,590	12/23/97	Masor et al.			
		5,753,614	05/19/98	Blackburn et al.			
		5,776,524	07/07/98	Reinhart			
		5,837,238	11/17/98	Casas et al.			
		5,877,272	03/02/99	Vandenbergh			
		5,902,578	05/11/99	Halpin-Dohnalek et al.			
		5,902,743	05/11/99	Lunchansky et al.			
		5,922,375	07/13/99	Luchansky et al.			
		5,952,314	09/14/99	DeMichele et al.			
		5,968,569	10/19/99	Cavadini et al.			
<i>DK</i>		5,972,415	10/26/99	Brassart et al.			

EXAMINER

*Deborah K. Warr*

Date Considered

*3-16-06*

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<i>[Signature]</i>		6,077,824	06/20/00	English et al.	—	—	
<i>[Signature]</i>		6,746,672 B2	06/08/04	O'Sullivan	—	—	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
<i>[Signature]</i>		American Type Culture Collection, "ATCC Number 9341," organism: <i>Micrococcus luteus</i> (Schroeter); designation: FDA strain PCI 1001 [online]; Manassas, VA [retrieved on 2002-04-03] from the Internet. Retrieved from the Internet: <URL: <a href="http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,534636,9341&amp;text=9341">http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,534636,9341&amp;text=9341</a> >; 2 pgs.
<i>[Signature]</i>		American Type Culture Collection, "ATCC Number 29425," organism: <i>Escherichia coli</i> (Migula); designation: K12 [online]; Manassas, VA [retrieved on 2002-04-03] from the Internet. Retrieved from the Internet: <URL: <a href="http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,5225109,29425&amp;text=k12">http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,5225109,29425&amp;text=k12</a> >; 1 pg.
<i>[Signature]</i>		Anderssen et al., "Antagonistic Activity of <i>Lactobacillus plantarum</i> C11: Two New Two-Peptide Bacteriocins, Plantaricins EF and JK, and the Induction Factor Plantaricin A," <i>Appl. Environ. Microbiol.</i> , 1998;64(6):2269-2272.
<i>[Signature]</i>		Archibald, " <i>Lactobacillus plantarum</i> , an organism not requiring iron," <i>FEMS Microbiol. Letts.</i> , 1983;19:29-32.
<i>[Signature]</i>		Bezkorovainy et al., "Iron Metabolism in Bifidobacteria," <i>Int. Dairy Journal</i> , 1996;6(10):905-919.
<i>[Signature]</i>		Bezkorovainy et al., "Aspects of Iron Metabolism in <i>Bifidobacterium Bifidum</i> Var. <i>Pennsylvanicus</i> ," <i>Int. J. Biochem.</i> , 1983;15(3):361-366.

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<i>[Signature]</i>		Bezkorovainy, "Iron Transport and Utilization by Bifidobacteria," <i>Biochemistry and Physiology of Bifidobacteria</i> , CRC Press, Inc., Boca Raton, FL, 1989:147-176.
<i>[Signature]</i>		Bollag et al., <i>Protein Methods</i> , Wiley and Sons, Inc., New York, NY, 1996; cover page, title page and table of contents only; 10 pgs.
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<i>[Signature]</i>		Breed et al., <i>Bergey's Manual of Determinative Bacteriology</i> , 7 <sup>th</sup> Edition, The Williams and Wilkins Co., Baltimore, MD, 1957; cover page, title page and table of contents only; 7 pgs.
<i>[Signature]</i>		de Ruyter et al., "Functional Analysis of Promoters in the Nisin Gene Cluster of <i>Lactococcus lactis</i> ," <i>J. Bacteriol.</i> , 1996;178(12):3434-3439.
<i>[Signature]</i>		Dodd et al., "Analysis of the genetic determinant for production of the peptide antibiotic nisin," <i>J. Gen. Microbiol.</i> , 1990;136(3):555-566.
<i>[Signature]</i>		Eijsink et al., "Induction of Bacteriocin Production in <i>Lactobacillus Sake</i> by a Secreted Peptide," <i>J. Bacteriol.</i> , 1996;178(8):2232-2237.
<i>[Signature]</i>		Engelke et al., "Biosynthesis of the Lantibiotic Nisin: Genomic Organization and Membrane Localization of the NisB Protein," <i>Appl. Environ. Microbiol.</i> , 1992;58(11):3730-3743.
<i>[Signature]</i>		Engelke et al., "Regulation of Nisin Biosynthesis and Immunity in <i>Lactococcus lactis</i> 6F3," <i>Appl. Environ. Microbiol.</i> , 1994;60(3):814-825.
<i>[Signature]</i>		Fuller, "Probiotics in man and animals," <i>J. Appl. Bacteriol.</i> , 1989;66(5):365-378.
<i>[Signature]</i>		Fuller, "Probiotics for Farm Animals," <i>Probiotics: A Critical Review</i> , Horizon Scientific Press, Wymondham, UK, 1999:15-22.
<i>[Signature]</i>		Green, "Case report: fatal anaerobic pulmonary infection due to Bifidobacterium eriksonii," <i>Postgrad. Med.</i> , 1978;63(3):187-188, 190, 192.
<i>[Signature]</i>		Gibson et al., "Regulatory effects of bifidobacteria on the growth of other colonic bacteria," <i>J. Appl. Bacteriol.</i> , 1994;77(4):412-420.

EXAMINER <i>[Signature]</i>	Date Considered <i>3-14-06</i>
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<i>JK</i>		Hansen, "Nisin as a Model Food Preservative," <i>Crit. Rev. Food Sci. Nutr.</i> , 1994;34(1):69-93.
		Ibrahim et al., "Inhibition of <i>Escherichia coli</i> by Bifidobacteria," <i>J. Food Prot.</i> , 1993;56(8):713-715.
		Immonen et al., "The codon usage of the <i>nisZ</i> operon in <i>Lactococcus lactis</i> N8 suggests a non-lactococcal origin of the conjugative nisin-sucrose transposon," <i>DNA Seq.- J. Seq. Map.</i> , 1995;5(4):203-218.
		Klaenhammer, "Genetics of bacteriocins produced by lactic acid bacteria," <i>FEMS Microbiol. Rev.</i> , 1993;12(1-3):39-85.
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<i>JK</i>		Muñoz et al., "Selective Medium for Isolation and Enumeration of <i>Bifidobacterium</i> spp.," <i>Appl. Environ. Microbiol.</i> , 1988;54(7):1715-1718.

<b>EXAMINER</b> <i>Delbert K. Nien</i>	<b>Date Considered</b> <i>3-14-06</i>
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<i>JS</i>		Neilands, "Molecular Aspects of Regulation of High Affinity Iron Absorption in Microorganisms," <i>Metal-Ion Induced Regulation of Gene Expression</i> , 1990;8:63-90.
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		Nes et al., "Biosynthesis of bacteriocins in lactic acid bacteria," <i>Antonie Van Leeuwenhoek</i> , 1996;70(2-4):113-128.
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		O'Sullivan, "Cloning, organization and regulation of genes involved in iron metabolism in fluorescent <i>Pseudomonas</i> spp. with biocontrol potential," Ph.D. thesis, National University of Ireland, Cork, 1989:1-120.
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EXAMINER <i>Deborah Harris</i>		Date Considered <i>3-16-06</i>

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<i>JSW</i>		Rammelsberg et al., "Antibacterial polypeptides of <i>Lactobacillus</i> species," <i>J. Appl. Bacteriol.</i> , 1990;69:177-184.
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<i>JSW</i>		Steen et al., "Characterization of the Nisin Gene as Part of a Polycistronic Operon of the Chromosome of <i>Lactococcus lactis</i> ATCC 11454," <i>Appl. Environ. Microbiol.</i> , 1991;57(4):1181-1188.

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<i>JS</i>		Stevens et al., "Nisin Treatment for Inactivation of <i>Salmonella</i> Species and Other Gram-Negative Bacteria," <i>Appl. Environ. Microbiol.</i> , 1991;57(12):3613-3615.
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